

AMAN JAYESH

+91 9207745955 | aman.jayesh@students.iiit.ac.in | linkedin.com/in/amanjayesh | github.com/jupist

EDUCATION

International Institute of Information Technology, Hyderabad <i>Bachelor of Technology in Computer Science and Engineering; CGPA: 8.05</i>	Telangana <i>July 2024 – May 2028</i>
– Relevant Coursework: Operating Systems and Networks, Data Structures and Algorithms, Computer Systems Organization, Introduction to Software Systems, Embedded Systems Workshop, Probability & Statistics.	

Kuriakose Elias English Medium School

Class XI - XII; Percentage: 98.5%

Kottayam, Kerala

EXPERIENCE

Apex Mentor – IIIT Hyderabad	July 2025 – Present
– Selected to guide a group of ~30 freshers, conducting bi-weekly interactive sessions to facilitate their academic and social adaptation to college life.	
Member – OSDG (Open Source Developers Group) IIIT Hyderabad	

Member – OSDG (Open Source Developers Group) IIIT Hyderabad	August 2025 – Present
– Active member of the open-source community at IIITH; assisted in organizing a Google workshop on campus as part of OSDG.	

PROJECTS

Audio Guided Microbot <i>ESP32, Keyword Spotting, C++</i>	July 2025 – Present
– Implemented Keyword Spotting on an ESP32-controlled microbot using a novel memory-efficient Multi-Scale Temporal Gating (MSTG) mechanism.	
– Optimized for robustness in high-noise conditions; A Research paper on the MSTG mechanism is currently in progress.	
Boo - Multiplayer Survival Game <i>C, Socket API, RayLib</i>	
– Built a fully functional multiplayer survival co-op game entirely in C within 24 hours (2nd Place).	
– Implemented networking using Socket API to handle client-server communication and game state synchronization.	
AI Generated Content Detection System <i>Python, Scikit-Learn</i>	
– Developed an open-source AI-generated content detection system in a 12-hour hackathon (1st Place).	
– Engineered an ensemble of open-source models to accurately classify multi-modal AI generated content.	
Respire <i>Deep Learning, ResNet, Signal Processing, Librosa</i>	
– Developing a lung-sound classification model to identify conditions (wheezing, crackle) using the HF_Lung_V1 dataset.	
– Utilizing signal processing techniques to feed Gammatone, Tkeo, and Mel spectrograms combined with CWT scalograms into a ResNet50v2 architecture.	

TECHNICAL SKILLS

Languages: C, C++, Python, SQL

Libraries & Frameworks: TensorFlow, Scikit-Learn, Pandas, NumPy, Matplotlib, Librosa, Raylib

Tools & Platforms: Git, GitHub, ESP32, Edge Impulse, Socket API

Certifications: Machine Learning Specialization (DeepLearning.AI - Stanford)

ACHIEVEMENTS

- Secured All India Rank **1261** in JEE Mains 2024.
- Achieved All India Rank **2341** in JEE Advanced 2024.
- Won **1st Place** (20,000 Rs) in Build2Break '25, a hackathon organized by OSDG-IIITH.
- Won **2nd Place** (15,000 Rs) in Megathon '24, a hackathon organized by E-CELL IIITH.
- Kerala State Team Chess Champion.